

- Sub 32
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could
Sub 28
44. The method of claim 43, wherein said identifying step comprises identifying a mutation in a His-Glu-Cys-Gly-His amino acid motif.
45. The method of claim 43, wherein said producing step h) comprises producing seeds yielding an oil having an a-linolenic acid content from about 0.5% to about 10%.
46. The method of claim 30, wherein said identifying step b) comprises identifying a mutation in a His-Glu-Cys-Gly-His amino acid motif.

REMARKS

Applicants have amended claims 1, 3-4, 6-7, 16, 18, 26, 28, and 30, and cancelled claims 10, 15, 20-25, 27, and 31 without prejudice to further prosecution. Claims 35-46 are submitted herewith. Applicants respectfully request consideration and allowance of claims 1-9, 11-14, 16-19, 26, 28-30, and 32-46.

Claims 1 and 4 have been amended to recite that the mutation is in a region of the desaturase gene encoding a His-Xaa-Xaa-Xaa-His amino acid motif. Claims 1, 4, 16, 26, and 30 have been amended to recite that the mutation renders the desaturase gene non-functional. Support for these amendments can be found, for example, at page 8, lines 26-29, and at page 10, lines 29-33.

The amendments to the specification at pages 1, 8, 11-12, 43, 44 and 49 serve to correct typographical errors and add sequence identifiers.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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